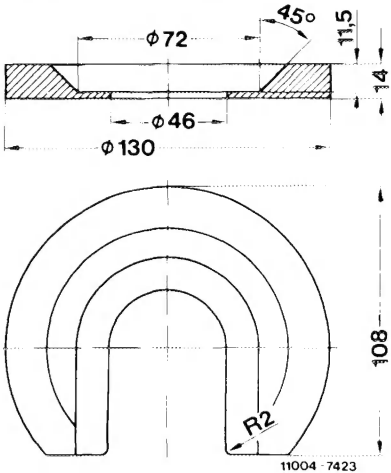
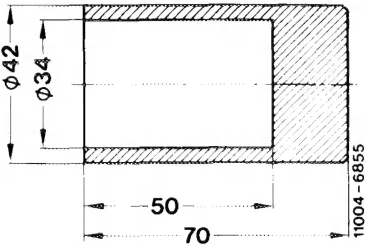


Self-made tools

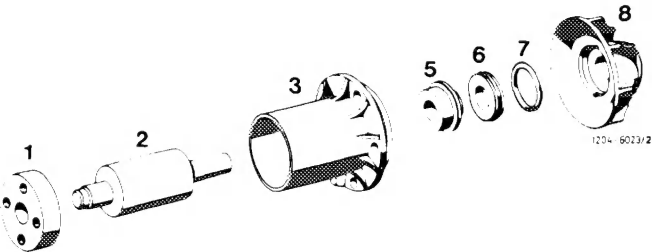
Pressing-off disc for impeller



Pressing-in sleeve



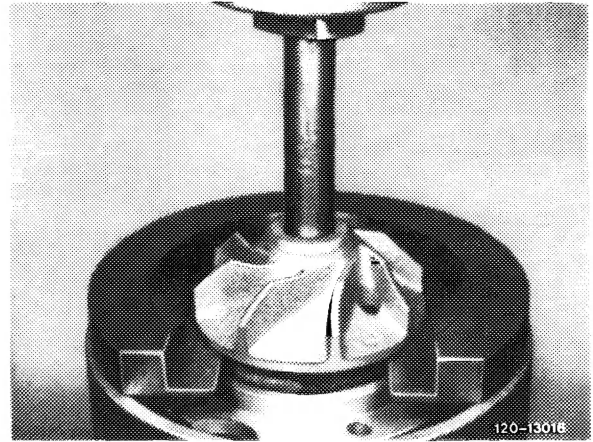
- |   |                     |
|---|---------------------|
| 1 Fan hub                               | 5 Sliding ring seal |
| 2 Water pump shaft with compact bearing | 6 Counter-ring      |
| 3 Bearing housing                       | 7 O-ring            |
|   | 8 Impeller          |



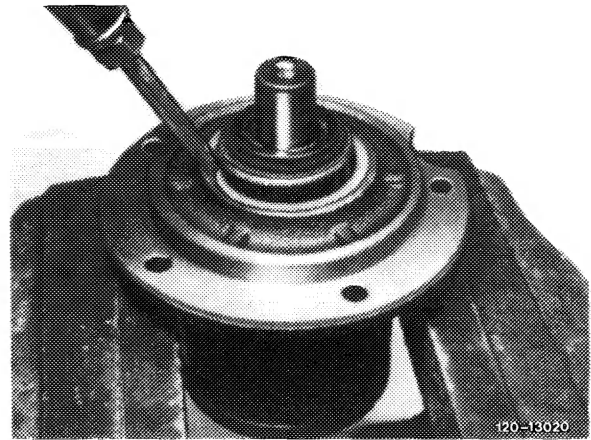
## Disassembly

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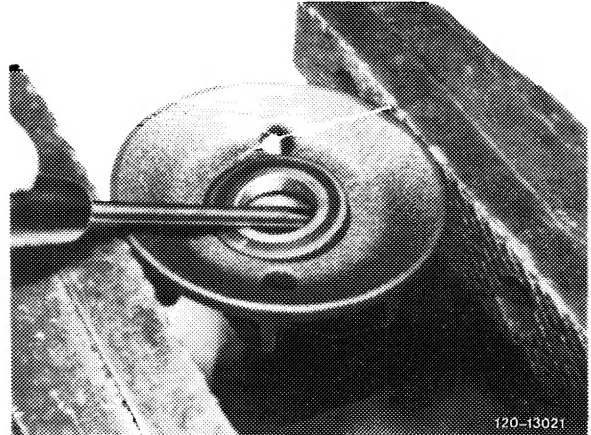
1 Press-off impeller. For this purpose, place pressing-off disc between impeller and bearing housing.



2 Apply light hammer blows at several points between bearing housing and sliding ring seal to cancel the pre-load and force sliding ring seal out.



3 Force counter-ring out of impeller.



## Assembly

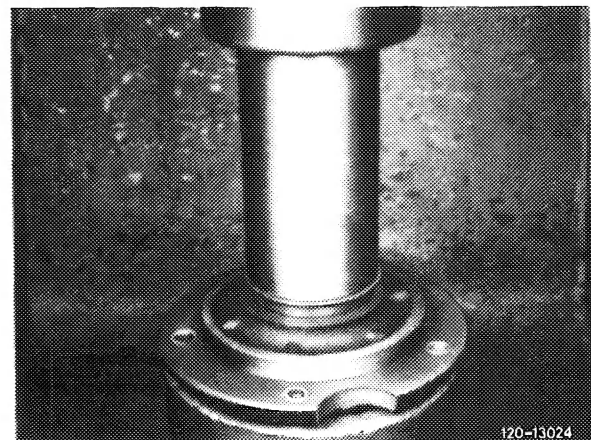
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4 Slightly coat mounting bore of sliding ring seal in water pump housing with sealing compound.

Press-in sliding ring seal by means of pressing-in sleeve or knock out.

### Attention !

Support at bearing housing only and not at water pump shaft.



5 Coat O-ring on counter-ring with brake cylinder paste and push with chamfered side (arrow) into thoroughly cleaned impeller.

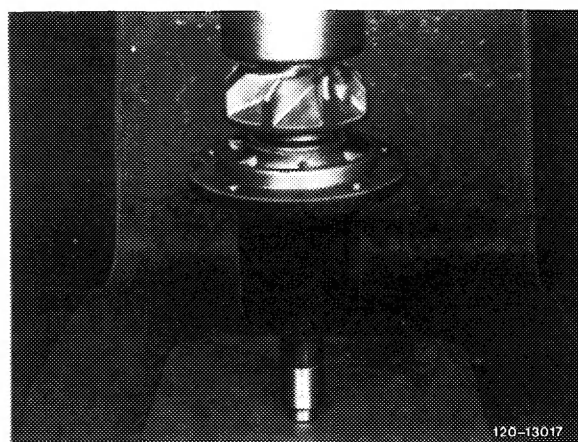


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6 Clean sealing surfaces of counter-ring and sliding ring seal free of dust with chamois cloth.

7 Degrease shaft stud and impeller in bore.

8 Press-on impeller flush with shaft while supporting water pump shaft.



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